**Virtual Mutation**

*From the class website, follow the procedure for the virtual mutation lab. Answer the following question.*

1. Describe the differences between the original and mutated sequences.
2. How many amino acids were changed?
3. What do you think will be the impact of this mutation? Why?
4. Was the sequence a result of point or frameshift mutation? What was the outcome of your mutation (silent, missense, nonsense)?
5. Explain why all mutations are not necessarily harmful.
6. Does changing the sequence of nucleotides always result in a different amino acid sequence? Explain.